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PHTCM48

Night Vision Trail Camera System

USER MANUAL

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1.Introduction

Congratulations on your purchase of the Night vision camera digital scout camera. This scout camera is designed to record the activity of wildlife game in the outdoors and enhance personal security with its still image and movie modes, weatherproof and rugged construction.

New Features:

- 5 to 30 seconds video with audio
- New Text LCD
- PIR Sensitivity Adjustor
- MMS/GPRS Compatible
- GPS Location
- Time lapse function
- Manually Set Camera Working Time Period (For example, you can let the camera work from 7:35 PM to 5:25 AM the next Day) for surveillance purposes.

Main Features:

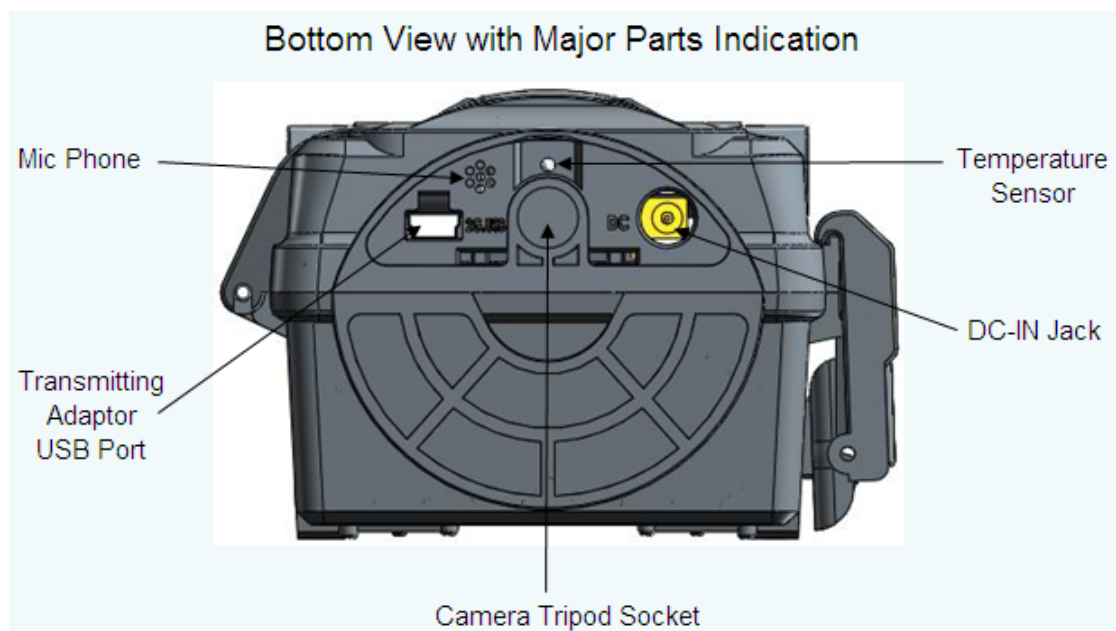
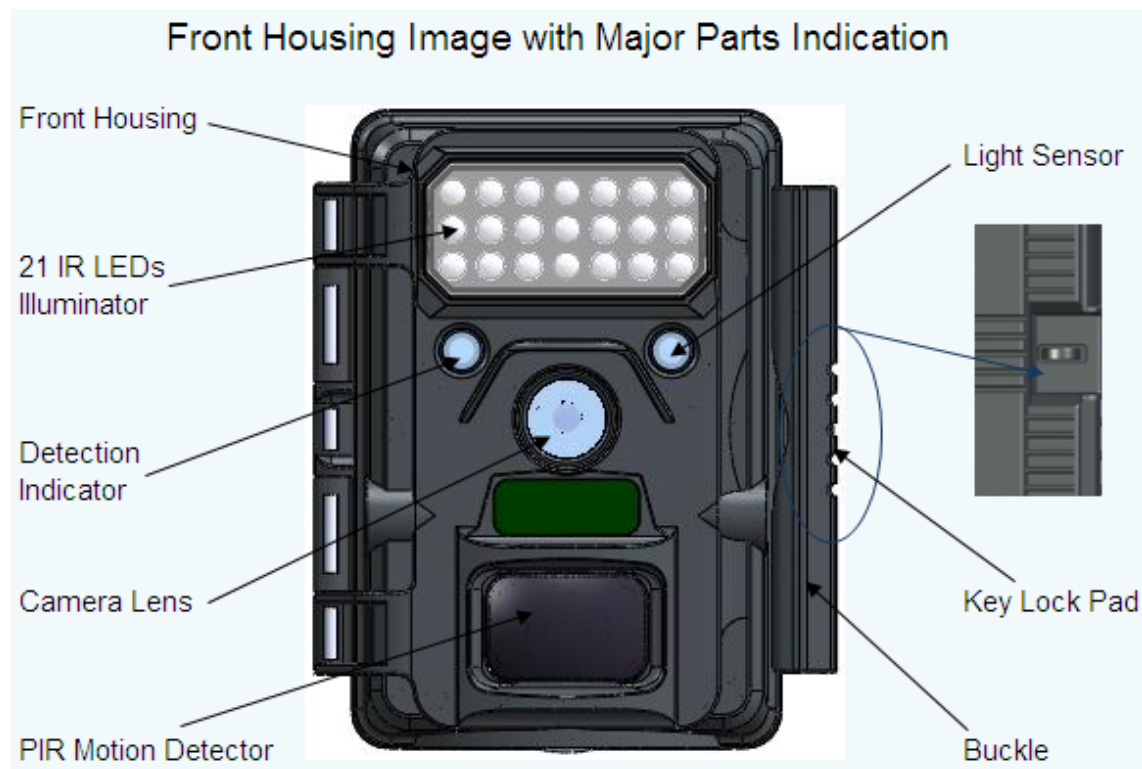
- ◆ 5.0MP Effective Pixel
- ◆ 21 IR LEDs,
- ◆ 1/2.5 Inch CMOS
- ◆ New Text LCD
- ◆ 5 to 30 seconds video with audio
- ◆ MMS/GPRS Compatible
- ◆ Time lapse function
- ◆ PIR Sensitivity Adjustor
- ◆ Longitude & Latitude, Temperature, Date Time, Moon Phase Imprint
- ◆ Power Supply: 6V, 2*4 (8) AA Cell batteries
- ◆ Ultra Portable Size (100mm * 122mm * 66 mm)
- ◆ Standard Socket for Camera Tripod
- ◆ Water Resistant

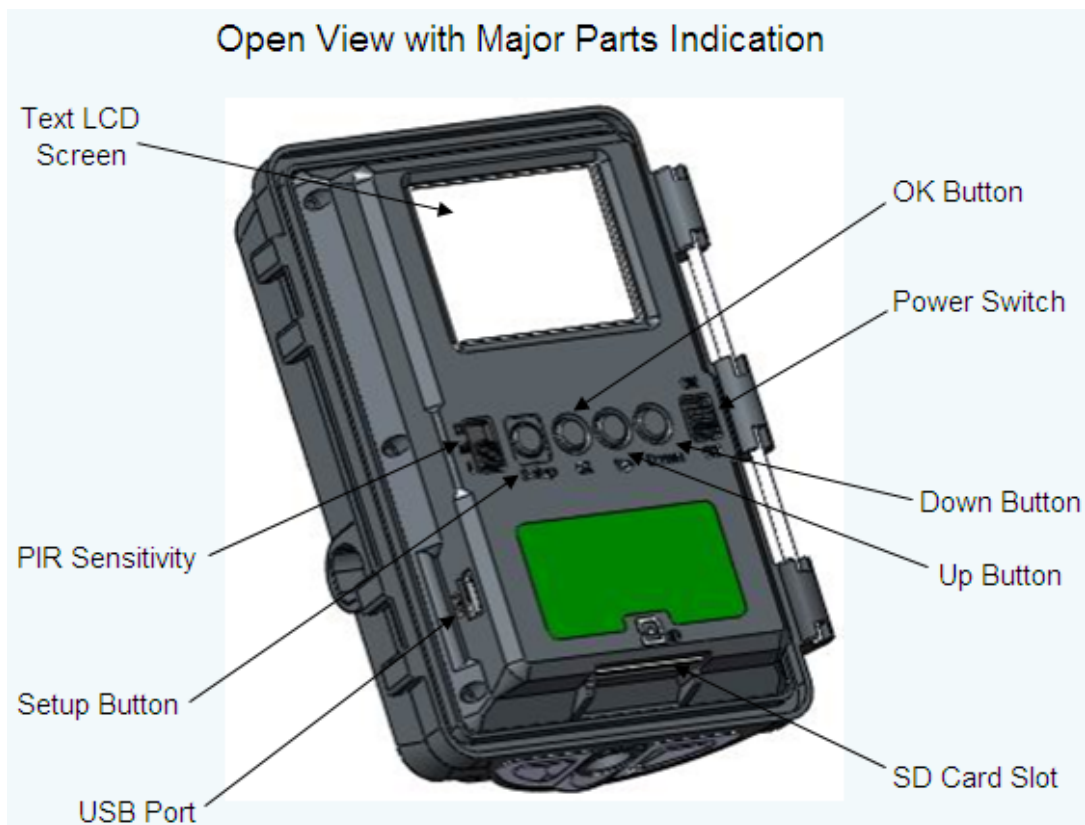
* Longitude & Latitude will only be printed if the camera is connected to the transmitting adaptor.

2.Digital Scout Camera Specifications

Product Name	Digital Scout Camera
Model Number	ST042
Image Sensor Type	1/2.5 Inch CMOS
Effective Pixels	5.0 Megapixels
Lens Aperture	F2.0 for night time / F3.0 for day time
Camera Lens Sight Angle	55 Degrees
Trigger Speed	<1.0Second
Number of IR LEDs	21 LEDs
IR Filter	Fully Automatic IR Filter
Display	Text LCD
PIR Distance Adjustor	Yes
Max Night Vision Lighting Distance	12 meters
Time Delay	5 seconds – 10minutes
Time Lapse Mode	Yes (1m~24h)
Duty Time	00H00M~23H59M
Multi-shot	3pcs
Selectable Image Resolution	10MP, 5.0MP
Audio	Yes
Video Resolution	Movie size: VGA, Movie length: by setting (5~30s)
MMS/GPRS Compatible	Yes
Photo Stamp	Longitude & Latitude, Moon phase, Date, Time, Temperature
Menu Languages	English
Extra power	DC-In 6Volts 1000mA (1A) minimum current
Power Supply	6V, 2*4 (8) AA Cell batteries.
Dimension	122mm X 100mm X66mm
Camera Tripod Socket	Yes
Water Resistant	Yes

3.Parts Identification





4. Packing Contents

Model Night vision camera Digital Scouting Camera

- User Manual
- USB cable
- Mounting Kit

5. Battery and SD Card Installation

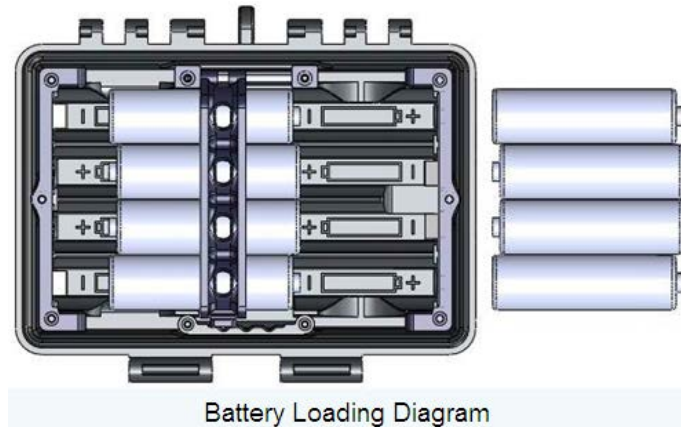
Night vision camera Digital Scouting Camera is designed to operate using 2 x 4*AA Cell Batteries. We recommend using Alkaline batteries.

NOTE: Always have camera in OFF position when installing or removing batteries.

Do not mix old and new batteries together.

Do not mix battery types—use all Alkaline or all Lithium.

- ▲ Please make sure the voltage and polarity (+/-) are correct before connection. Incorrect voltage or polarity (+/-) will damage the camera.



Memory

Your Night vision camera Digital Scouting Camera has a memory card slot and can accept SD cards with a max capacity of 32GB (SD card sold separately).

Inserting SD card

Make sure camera is in the OFF position whenever adding or removing memory.

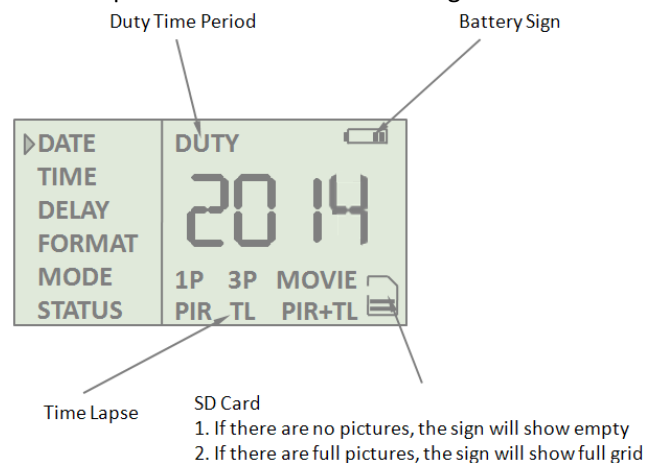
- Insert SD memory card in to the SD Card Slot completely and in the correct direction as shown by the sticker located at the side of the housing.
- To remove the SD memory card, depress the SD card and pull out the card gently.

▲ SD cards must be clean (no images from other sources), if you are using the SD card from other cameras, please make sure to format the SD card prior to using in the camera. New cards can be used straight from the package.

6.Setup Your Camera

6.1 Enter Camera Setting Mode

The setting of this camera is very easy. The word "WAIT" will show on the display for 2-3 seconds, then the camera will enter setup mode. Menu list as following:



Menu Items

Basic Setting	Items	Options
1	DATE	YYYY MM/DD
2	TIME	HH:MM
3	DELAY	MM:SS
4	FORMAT	FORMAT SD CARD
5	MODE	1P, 3P and Movie 5M(HI), 3M(LO) for Photo 5 ~ 30s for Video
Advance Setting	Items	Options
6	STATUS	PIR, TL or PIR+TL TL: 1m~24H (Time Interval)
7	DUTY	HH:MM (Start Time) ~ HH:MM (End Time)

6.2 Setup the camera

In this chapter, it will tell you how to set up the camera.

6.2.1 Set PIR Sensitivity



This camera has 3 sensitivity levels. Choose “H” (“H” means high sensitivity) when the weather is hot. Choose “M” (“M” means middle sensitivity) when the weather is normal, and choose “L” (“L” means low sensitivity) when the weather is cold. If you want the camera to detect long distance coverage, or to sense very small animals, please always put the Switch at “H”.

6.2.2 Set Date

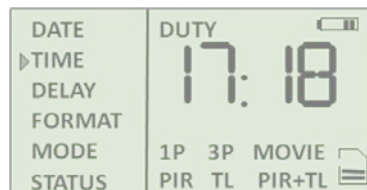
Setting the date before use, so that the user can have the month, day and year printed on the picture.



- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “DATE” menu
- c) Press “OK” to confirm
- d) Press “UP” and “DOWN” to select year number
- e) Press “OK” to confirm and then it will come to set Month “MM”, Press “UP” and “DOWN” to select.
- f) Press “OK” to confirm and then it will come to set Date “DD”, Press “UP” and “DOWN” to select.
- g) Press “OK” to confirm
- h) Press “Setup” to QUIT or continue to the next menu item.

6.2.2 Set Time

Setting time before use, so that the user can have time information printed on the picture.



- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “TIME” menu
- c) Press “OK” to confirm
- d) Press “UP” and “DOWN” to select hour “HH”.
- e) Press “OK” to confirm and then it will come to set minute, Press “UP” and “DOWN” to select the minute “MM”.
- f) Press “OK” to confirm
- g) Press “Setup” to QUIT or continue to the next menu item.

6.2.3 Set Delay

Camera Delay is used to set the amount of preset time in minutes and seconds the camera will sleep between PIR triggering. This setting ranges from 5 second ~ 10mins. Default delay is 1 minute.



- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “DELAY” menu
- c) Press “OK” to confirm
- d) Press “UP” and “DOWN” to select minute “MM”.
- e) Press “OK” to confirm and then it will come to set seconds “SS”, Press “UP” and “DOWN” to select.
- f) Press “OK” to confirm
- g) Press “Setup” to QUIT or continue to the next menu item.

6.2.4 Format the SD Card

You are able to format the SD card and clear all the pictures on the card. When you select this menu, you will see a 4 digits number. For example “6586”, this means you have total 6586 pictures and movies on the SD card.

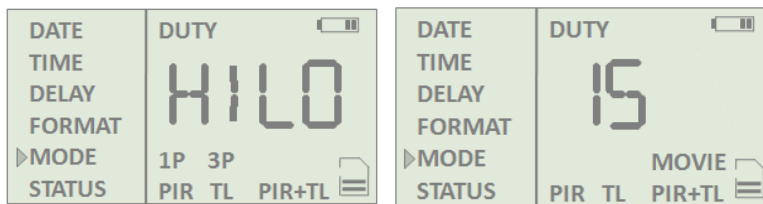


- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “FORMAT” menu
- c) Press “OK” to confirm
- d) Press “UP” and “DOWN” to select YES or NO
- e) Press “OK” to confirm
- f) Press “Setup” to QUIT or continue to the next menu item.

6.2.5 Set MODE (1P, 3P, Movie, Photo Resolution and Video Length)

The MODE setting is used to tell the camera how it will take photos or videos. This setting is related to the toggle on “Photo or Video”. If the toggle stays at photo, you will set the picture resolution. If it stays at Video, you will set the video length.

- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “MODE” menu
- c) Press “OK” to confirm
- d) Press “UP” and “DOWN” to select from 1P, 3P or Movie
- e) Press “OK” to confirm

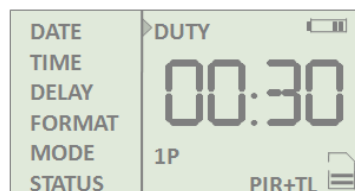


- f) Then it will show corresponding options for 1P 3P or Movie
- g) If you select 1P or 3P, the camera will ask you to set the photo resolution HI (5M) or LO(3M)
- h) If you select Movie, the camera will ask you to set the video length from 5s ~ 30s.
- i) Press OK to confirm
- j) Press "Setup" to QUIT or continue to the next menu item.

6.2.6 Set Status (PIR, Time-lapse)

In the menu, you are able to set the camera working status such as PIR activated or time-lapse mode. We have three statuses.

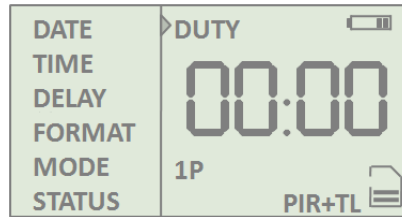
1. PIR: This means the camera works on PIR activation only.
2. TL: This means the camera works on time-lapse mode only. Time-lapse means the camera takes the picture on a certain interval of time. The interval range is from 1 minute to 24 hours. Example: The time interval **20:15** means camera will capture a image every 20 hours and 15 minutes. **00:59** means camera will capture a photo every 59 minutes.
3. PIR+TL: This means the camera works on both PIR trigger and the time-lapse hybrid mode.



- a) Turn on the camera
- b) Press "UP" and "DOWN" to Select "STATUS" menu
- c) Press "OK" to confirm
- d) Press "UP" and "DOWN" to select "PIR", "TL" or "PIR+TL"
- e) Press "OK" to confirm
- f) If you select "TL" or "PIR+TL", you are asked to set the interval from 1 minute to 24 hours. For example, 1 minute means the camera will take the picture every 1 minute.
- g) Press "OK" to confirm
- h) Press "Setup" to QUIT or continue to the next menu item.

6.2.7 Set Camera Duty Time

User can make the camera work in a specific time period of the day. if you only need camera work at night, you can set camera work start from 19:00PM and end at morning 06:00AM. This will affect all three status of PIR, TL or PIR+TL mode. We call this "duty time" mode. By system default, the camera works 24 hours a day.



- a) Turn on the camera
- b) Press “UP” and “DOWN” to Select “DUTY” menu
- c) Press “OK” to confirm
- d) Next you will set the starting point in HH:MM.
- e) Press “UP” and “DOWN” to select and press “OK” to confirm
- f) First you will set the ending point in HH:MM.
- g) Press “UP” and “DOWN” to select and press “OK” to confirm
- h) Press “Setup” to QUIT or continue to the next menu item.

For Example:

07:30 -- -- 18:30 would define camera to work from 7:30AM to 6:30PM

20:15 --- 04:20 would define camera to work from 8:15PM to 4:20AM the next day.

6.3 GSM Setting (After transmitting adaptor is connected)

▲ For how to connect and set the transmitting adaptor, please read the S2G00 User Manual. MMS/GPRS functions are compatible on this camera. If the user selects these functions, the camera display will show the following:

- ✧ Transmitting Adaptor’s LED indicator will be illuminated if it connects to camera successfully.
- ✧ After user completes set up of the camera, press “setup”, the camera will start to take images, while the display will show the signal intensity “*H/M/L”.
- ✧ When the adaptor is transmitting images, the display will show “GSM” and countdown 15s .

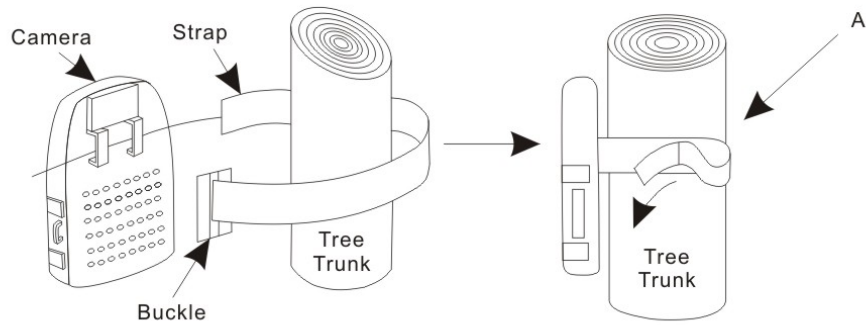
Note:

- ✧ The camera display will show “2GNO” if connection is not made very well.
- ✧ The camera display will show “NOSI” if the SIM card is not inserted in the adaptor, or if the SIM card is in poor condition and not making good contact.

7 Using the Camera

7.1 Mounting the Camera

It is recommended that you mount the camera 1.2~1.5 meters off the ground with the camera pointed at a slight downward angle. Be sure to avoid mounting the camera facing east or west as the rising and setting of the sun could produce false triggers and overexposed images. Clear branches and other debris away from the front of the camera so as not to block the camera lens or PIR sensor.



- a) Insert the strap through the strap slots on the rear housing.
 - b) Wrap the strap around the mounting surface. Secure the strap and tighten the buckle in order to secure the camera.
- ▲ In order to obtain proper weather resistance, please make sure that both door latches are securely locked in place.

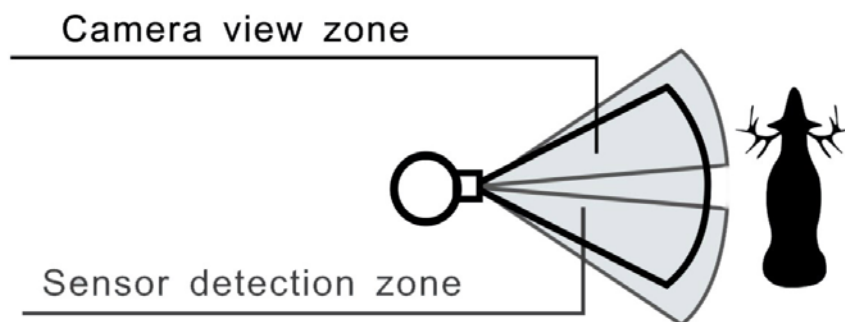
7.2 Turn on the Camera

Just move the "POWER" switch to "ON", and the camera will be turned on. If there is no operation in 1 minute, the camera will go into the sleeping mode. When the PIR sensor is triggered, it will start to take photos/video right after the delay time is passed.

7.3 Testing the Camera Coverage Area

One of Night vision camera Scouting Camera's features is the ability to test the coverage area.

- After mounting the camera, open the front housing and slide the "Power" switch to the "ON" position and put the camera into the "SETUP" mode (Refer to section 6.1).
- A red indicator light on the front will blink when you have intruded the coverage area.
- Adjust the camera position as needed and repeat testing until the desired coverage area is achieved.



- ▲ Make sure to switch the "Power" to "On" and press the "SETUP" button again after setting is over. Otherwise the camera will not take any pictures or movies.

7.4 Secure Your Camera

Night vision camera Scouting Camera has a locking hole to have a lock on it.

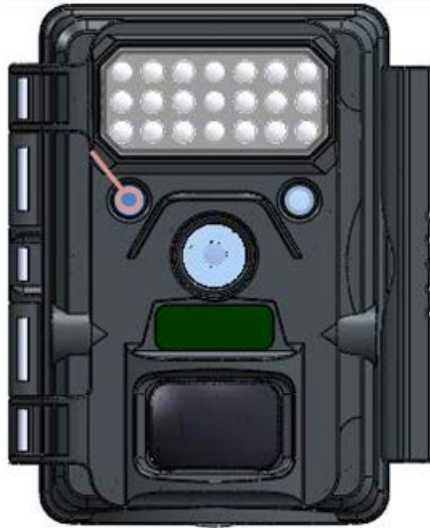


You can also use the cable lock with our camera to secure the camera on a tree or a pole. It also has a hole for a security chain.



7.5 Battery Status Reading

- a) If system voltage is greater than 4.1v, the camera will operate normally both day and night
- b) If system voltage is greater than 3.9v but less than 4.1v, the battery indicator will flash 2 times in the night and go into sleep mode. The camera will operate in the day but will sleep in the night, because the power cannot support IR flash.
- c) If the system voltage is less than 3.9v, the battery indicator will flash 10 times and then turn off the camera. You need to replace a set of new batteries.



8 Viewing the Images and Movies on a Computer

Connect the Camera directly to the PC

1. Slide the "Power" toggle switch to the "on" position
2. Select "Setup" Mode (Refer to Section 6.1)
3. Connect your camera to the PC via the USB cable. The PC will recognize the new device as a "mass storage" camera drive.
4. Then the user can copy, move or delete the photos and videos that are on the SD card.

Read Images by Card Reader

1. Depress the SD card and pull out the card gently.
2. Put the SD card into the card reader (SD card readers are available in the market)..
3. Read images and movies from the card reader.

9. Glossary

- **PIR:** Passive Infrared Sensor. Senses motion like typical security motion detector. Requires infrared energy (heat) in addition to motion to trip sensor to assure detection of live animals.
- **Time-Lapse:** Time lapse the camera to take pictures during a certain time interval by manually pre-setting. This helps the hunter or wildlife freely observer monitor the field.
- **Camera Delay:** Time elapsed between photos while events are sensed and recorded. This is user-set based on wildlife activity in the area.
- **Resolution:** The resolution selection that you have selected. MP = Mega Pixels = 1 million pixels
 HI (2560 x 1920): 5.0M pixels image. (High image quality, big file size)
 LO (2048 x 1536): 3.1M pixels image. (Medium image quality, medium file size)
 Video resolution (640 x 480@30fps): This is the resolution during video capturing.
- **FPS:** Frame per second. This is the measurement of the frequency (rate) at which an imaging

device produces unique consecutive images. 30 fps means that the camera produces video at 30 frames per second. Higher fps values provide higher quality video.

- **Moon Phase Imprint:** The activity of animals is believed by many to be related to the moon phase. Our unit features an imprint of the moon phase stamp on each photo, as to provide more information to the hunter or wildlife enthusiast.
- **IR Flash:** Also called IR LED Array or Infrared LED Night Vision feature. It can emit a burst of infrared light which is invisible to the human eye. This is especially useful for night photos when a visible flash is undesirable.
- **SD Card:** Memory card used to store images and video. The camera is compatible with up to 32GB capacity SD cards
- **Battery Life:** Time that camera will function in the field. It is dependent on temperature, number of images and number of flashes during that time. Based on our new advanced power system, this camera can support 30 pictures /day for one year surveillance.
- **Multiple:** Refers to set the number of pictures the camera will take per PIR triggering
 - 1P: Single image capturing per PIR triggering
 - 3P: Three continuous images captured per PIR triggering

10. Troubleshooting/FAQ

■ Battery life is shorter than expected

- ✧ Battery life will vary with operating temperature and the number of images taken over time. Typically, the camera will be able to capture several thousand images before the batteries die.
- ✧ Check to make sure you have used new alkaline or lithium batteries.
- ✧ Make sure that the power switch was turned to the “ON” position and that the camera was not left in “Setup” mode while in the field.
- ✧ Make sure that you are using a good quality name brand SD card in your camera.

■ Camera stops taking images or won’t take images

- ✧ Please make sure that the SD card is not full. If the card is full, the camera will stop taking images.
- ✧ Check the batteries to make sure that they are new alkaline or lithium AA batteries. See note above about short battery life.
- ✧ Make sure that the camera power switch is in the “ON” position and not in the “OFF” position or in “Setup” mode.
- ✧ Make sure that you are using a good quality SD card in your camera.
- ✧ If the SD card has its write protect switch in the lock position, the camera will not take images.
- ✧ If you have used an SD card in another device before inserting it in your camera, you might want to try formatting the card using the “Format” parameter in Setup mode. Make sure you have backed up any important files first, as formatting will erase all previous files. In some cases, other devices may change the formatting of the SD card so that it will not work properly with the camera.

■ Camera won’t power up

- ✧ Make sure that you have installed all 2x4 batteries in the battery compartment.
- ✧ Make sure that the batteries are installed correctly, observing proper polarity. Always place the negative (flat) end of each battery in contact with the spring tab side of its slot inside the camera.

■ **Still Photo and/or Video Quality Problems**

✧ ***Night photos or videos appear too dark***

- a. Try using a set of new batteries. The flash will stop operating near the end of the battery life.
- b. You will get the best results when the subject is within the ideal flash range, and no farther than 10 meters from the camera. Subjects may appear too dark at greater distances.
- c. Please note that when the still photo mode is set to “3P”, or with very short Delay time settings, some images may appear darker than others. This is due to the quick response and rapid retriggering of the camera, allowing less time for the flash to fully recharge before firing again.

✧ ***Daytime photos or videos appear too dark***

- a. Make sure that the camera is not aimed at the sun or other light sources during the day, as this may cause the auto exposure to produce darker results.

✧ ***Night photos or videos appear too bright***

- a. You will get the best results when the subject is within the ideal flash range, no closer than 10’ (3m) from the camera. Subjects may appear too light at closer distances.

✧ ***Photos with streaked subject***

- a. In some cases with low lighting conditions and fast moving subjects, the 5M (Megapixel) resolution setting may not perform as well as the 3M settings.
- b. If you have multiple images where fast moving subjects produce streaks on the photo, try the low resolution setting instead.

✧ ***Red, green or blue color cast***

- a. Under certain lighting conditions, the sensor can become confused resulting in poor color images.
- b. If this is seen on a consistent basis, then the sensor may need servicing. Please contact customer service.

✧ ***Short video clips—not recording to the length set***

- a. Check to make sure that the SD card is not full.
- b. Make sure that the camera has good batteries in it. Near the end of the battery life, the camera may choose to record shorter video clips to conserve power.

■ **Photos Do Not Capture Subject of Interest**

- ✧ Try to set your camera up in an area where there is not a heat source in the camera’s line of sight.
- ✧ In some cases, setting the camera near water will make the camera take images with no subject in them. Try aiming the camera over ground.
- ✧ Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.
- ✧ Remove any limbs which are right in front of the camera lens.

■ **PIR Sensor LED Flashes/Doesn't Flash**

- ✧ When the camera is in the "Setup" mode, the PIR Indicator LED on the front of the camera will flash when it senses motion. This is for setup purposes only and will help the user aim the camera.
- ✧ During use, the LED will not flash when the camera takes an image. This is to help keep the camera hidden from game.

■ **Camera won't retain settings**

- ✧ Make sure that you have been saving the changes to any parameter settings that you made while in "Setup" mode, by pressing "OK" after changing the setting. If you don't save your new setting after changing it, the camera will continue to use the original default setting for that parameter.

■ **Longitude & latitude imprint not be showed on images**

- ✧ Make sure this trail camera is connecting or working together with the transmitting adaptor. Longitude & Latitude will only be printed if the camera is connected to the transmitting adaptor.